Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER– V EXAMINATION – WINTER - 2016

Subject Code: 650001 **Date:17/11/ 2016**

Subject Name: Software Engineering

Time: 10:30 am To 01:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Answer the following questions. (1) What do you mean by Software Engineering? (2) List out five basic framework activities of software development. (3) Define term : Module (4) What is Software Architecture? (5) What is Cohesion? (6) List out few typical user interface design errors. (7) What do you mean by testing?	**07**
	(b)	Explain the waterfall process model in detail with advantages & disadvantages.	**07**
Q.2	**(a)**	List out different agile process model and explain Scrum model in details.	**07**
	(b)	Explain different principles of communication framework activity of software development process.	**07**
		OR	
	(b)	Explain different distinct tasks for requirement engineering.	**07**
Q.3	**(a)**	List the fundamental software design concepts and describe any five in details.	**07**
	(b)	What do you mean by Architectural Style? List out different taxonomy of it and explain any two in details.	**07**
		OR	
Q.3	**(a)**	Explain the different design notations at component level for designing traditional software.	**07**
	(b)	What is an interface? Explain three golden rules for user interface design in details.	**07**
Q.4	**(a)**	Describe the set of goals that are applicable to WebApp design.	**07**
	(b)	What do you mean by defect? Explain Formal Technical Review in details.	**07**
		OR	
Q.4	**(a)**	Explain different types of System testing in details.	**07**
	(b)	Explain white box testing with its types.	**07**
Q.5	**(a)**	Explain Navigation testing for WebApps.	**07**
	(b)	Briefly discuss the metrics for object oriented design.	**07**
		OR	
Q.5	**(a)**	List out different project estimation techniques and discuss any two in details.	**07**
	(b)	What is Project scheduling? Explain its principles.	**07**

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